

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-4, 6, 9, 12, 13 and 18 in accordance with the following:

1. **(currently amended)** An electroluminescence display device comprising:
a substrate;
a corrugated structure formed on the substrate, wherein the corrugated structure is arranged in a predetermined pitch and disperses light through diffraction and reflection; and
a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer, and a second electrode layer sequentially formed on the substrate to follow ~~the~~ a shape of the corrugated structure.
2. **(currently amended)** The electroluminescence display device of claim 1, wherein the corrugated structure comprises a plurality of dots, each dot having a cylindrical shape or a polygonal cone shape, and arranged in ~~a~~ the predetermined pitch.
3. **(currently amended)** ~~The electroluminescence display device of claim 1,~~ An electroluminescence display device comprising:
a substrate;
~~wherein the~~ a corrugated structure ~~comprises~~ comprising a thin-film layer having a plurality of holes formed in a predetermined pattern in the thin-film layer and dispersing light through diffraction and reflection; and
a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer, and a second electrode layer sequentially formed on the substrate to follow a shape of the holes in the thin film layer.
4. **(currently amended)** The electroluminescence display device of claim 1, wherein the corrugated structure comprises a material having substantially ~~the~~ a same refractive index as the substrate.

5. **(original)** The electroluminescence display device of claim 4, wherein the material comprises SiO₂, SiO₂ aerogel, silicon polymer, BCB, or polyimide.

6. **(currently amended)** The electroluminescence display device of claim 1, wherein a the pitch between corrugating members of the corrugated structure is $\lambda/4$ to 4λ of a wavelength of light produced from the fluorescent layer.

7. **(original)** The electroluminescence display device of claim 6, wherein the pitch between corrugating members of the corrugated structure is 100-2400 nm.

8. **(original)** The electroluminescence display device of claim 1, wherein a height of corrugating members of the corrugated structure is 50-1000 nm.

9. **(currently amended)** ~~The electroluminescence display device of claim 2, wherein~~
the An electroluminescence display device comprising:

a substrate;

a corrugated structure formed on the substrate; and

a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer, and a second electrode layer sequentially formed on the substrate to follow the a shape of the corrugated structure, wherein:

the corrugated structure comprises a plurality of dots arranged in a predetermined pitch, each dot having a cylindrical shape or a polygonal cone shape,

a shape of a top surface of each dot is a circle, and

a relationship between a diameter of the circle and a ~~the~~ pitch between the dots satisfies a formula of $0.05 < 2 \times D/P < 0.5$, wherein D and P represent the diameter and pitch, respectively.

10. **(original)** The electroluminescence display device of claim 1, wherein the fluorescent layer has a higher refractive index than the adjacent first and second insulation layers.

11. **(original)** The electroluminescence display device of claim 1, wherein the fluorescent layer comprises an oxide or sulfide having a refractive index of more than 1.6 as a base material.

12. **(currently amended)** An electroluminescence display device comprising:
a transparent substrate;
a corrugated structure having a predetermined pitch and dispersing light through diffraction and reflection; and
a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer, and a second electrode layer sequentially formed on the substrate,
wherein the corrugated structure is formed on the substrate or on at least one of the sequentially formed layers, and at least one of the sequentially formed layers is formed on the corrugated structure to follow a shape of the corrugated structure.

13. **(currently amended)** The electroluminescence display device of claim 12, wherein:
the corrugated structure comprises a plurality of dots,
each dot having has a cylindrical shape or a polygonal cone shape, and
the plurality of dots are arranged in ~~a~~ the predetermined pitch.

14. **(original)** The electroluminescence display device of claim 12, wherein the corrugated structure comprises transparent SiO₂ or polyimide.

15. **(original)** The electroluminescence display device of claim 12, wherein a predetermined pitch between corrugating members of the corrugated structure is $\lambda/4$ to 4λ of a wavelength of light produced from the fluorescent layer.

16. **(original)** The electroluminescence display device of claim 15, wherein the predetermined pitch is 100-2400 nm.

17. **(original)** The electroluminescence display device of claim 12, wherein a height of corrugating members of the corrugated structure is 50-1000 nm.

18. **(original)** ~~The electroluminescence display device of claim 13, wherein~~
An electroluminescence display device comprising:

a transparent substrate;
a corrugated structure dispersing light through diffraction and reflection; and
a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer,
and a second electrode layer sequentially formed on the substrate,

wherein:

the corrugated structure is formed on the substrate or on at least one of the
sequentially formed layers, and at least one of the sequentially formed layers is formed on the
corrugated structure to follow a shape of the corrugated structure,

the corrugated structure comprises a plurality of dots,

each dot has a cylindrical shape or a polygonal cone shape,

the dots are arranged in a predetermined pitch, and

the a shape of a top surface of each dot is a circle, and a relationship between a
diameter of the circle and a pitch between the dots satisfies a formula of $0.05 < 2 \times D/P < 0.5$,
wherein D and P represent the diameter and pitch, respectively.

19. **(original)** The electroluminescence display device of claim 12, wherein the fluorescent layer has a higher refractive index than adjacent layers.

20. **(original)** The electroluminescence display device of claim 12, wherein the fluorescent layer comprises an oxide or sulfide having a refractive index of more than 1.6 as a base material.

21. **(original)** The electroluminescence display device of claim 12, further comprising a thin film transistor layer driving the first electrode layer and the second electrode layer.

22. **(original)** The electroluminescence display device of claim 12, wherein the fluorescent layer comprises red, green, and blue layers formed in a predetermined pattern, and is formed between the first electrode layer and the second electrode layer, the first and second electrode layers also formed in a predetermined pattern.

23. **(cancelled)**

24. **(previously presented)** An electroluminescence display device comprising:
a substrate having a planar surface and a plurality of identifiable geometric shapes

projecting from the planar surface, each identifiable geometric shape having a first end integrally formed with the planar surface and a second end displaced from the planar surface by a predetermined distance and parallel with the planar surface; and

a first electrode layer, a first insulation layer, a fluorescent layer, a second insulation layer, and a second electrode layer sequentially formed on the substrate and following a shape of the plurality of identifiable geometric shapes.

25. **(previously presented)** The electroluminescent display device of claim 24, wherein a cross section of each identifiable geometric shape taken between the first end and the second end is cylindrical.

26. **(previously presented)** The electroluminescent display device of claim 24, wherein:

respective cross sections of each identifiable geometric shape taken at first and second displacements from the first end are cylindrical, and

a diameter of the cross section taken at the second displacement is smaller than a diameter of the cross section taken at the first displacement.

27. **(previously presented)** The electroluminescent display device of claim 24, wherein respective cross sections of the identifiable geometric shape taken at first and second displacements from the first end are square.

28. **(previously presented)** The electroluminescent display of claim 27, wherein areas of the respective cross sections at the first and second displacements are equal.